
NAVSEA TMDE Program

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TMDE PROGRAM OBSTACLES

- Continually expiring TMDE contracts
- No central clearinghouse for test equipment
 - ISEAs procuring own test equipment
 - TYCOM/SPM/PEO model introduction
 - Incomplete LCS as result
- Model replacement industry-driven rather than based on performance requirements
- No systematic retirement plan
 - ORTEC unfunded
 - Lack of coordination between processes of acquisition, technical review, and allowancing

TMDE PROGRAM OBSTACLES

IMPACTS

- GPETE Acquisition Process not in sync with Prime System Acquisition
- Model/Equipment proliferation-Range/Depth
 - Example: 100mhz Oscilloscope/21 models/3541 units
- Schoolhouse/Shore infrastructure not in sync with shipboard configurations
- LCS cost not considered, Fleet bears the burden
- Deficiencies-based acquisition vice planned requirements
- Multiple, non-standard ILS and engineering support packages

TMDE PROGRAM PROCESS IMPROVEMENT

- Process Drivers
- Requirements Determination
- Parametric/Performance Requirements
- Industry Matrix
- Allowancing
- 5A.Allowance Optimization
- TMDE Specification
- Calibration Support Plan
- Procurement Contract Award
- Financial Data
- POM/PR Process
- CINC Review
- Procurement Execution

1. PROCESS DRIVERS

- RM&A
- Obsolescence
- Performance
- Proliferation
- DMS
- Cost of Support
- End of Production
- Prime System/Equipment Modification
- New Requirement
- Emergent and unplanned requirements

2. REQUIREMENTS DETERMINATION

- Determine Prime System/Equipment Measurement & performance requirements
 - Contact ISEAs/PARMS/Fleet
 - Review Technical Data Requirements (MRCs/TMs)
 - Performance and Measurement D/B developed
 - Calibration Support Plan by Measurement Discipline

3. PARAMETRIC/PERFORMANCE REQUIREMENTS

- Establish Logical Groupings
 - Inventory Review
 - Prime System (PS) Maintenance Requirement Grouping
 - Measurement Discipline Grouping (SCAT)
 - Document Relationship of PS to SCAT to Model

4. INDUSTRY MATRIX

- New Technology opportunities
- Increased performance options
 - Projected per unit costs
 - Availability
 - Production life

5. ALLOWANCING

- Number of installed Prime Systems/Equipment
- Location
- Periodicity of use
- Cost
- Portability
- Allowance Optimization

5A. ALLOWANCE OPTIMIZATION

- Evaluate SURFMER study report and impact
- Review essential PMS and Corrective Maintenance during deployment
- Proposed greater use of loan pools
- Proposed greater use of operational exchange pools
- Re-evaluate mean time between failure of prime and support equipment
- Proposed fixed allowance per class as baseline

6. TMDE SPECIFICATION

- Measurement requirement
- Performance requirement
- ILS
 - Maintenance Planning
 - Training
 - Tech Data
 - Calibration Support

7. CALIBRATION SUPPORT PLAN

- Support within an established measurement discipline
- Location to establish calibration support in relation to workload
- Level of calibration support
- Total cost of deployment
- ICP development/Initial Interval
- Training

8. PROCUREMENT CONTRACT AWARD

- Proposal evaluation
- Bid Sample Test
- Production Lot Testing
- Modifications
- Award

9. FINANCIAL DATA

- Range and Depth:
- Data points:
 - MOCC/MEASURE
 - CDMD-OA
- LCS costs and ROI:

10. POM/PR PROCESS

- CINC Review
- CINC prioritization and endorsement
- Sponsor submittals/briefs
- Control numbers established

11. CINC REVIEW

- Adjustments based on:
 - Controls
 - Changing priorities

12. PROCUREMENT EXECUTION

- Drop requisitions
- Deploy
- Support
- Retire old model

STANDARDIZATION POA&M

The TMDE ISEA will complete standardization planning for the following families of GPETE in Calendar Years 01 & 02

- Oscilloscopes **Δ** 3/31/01
- Digital Multimeters **Δ** 12/31/01
- Counter Timers **Δ** 4/30/02
- Base Band Generators **Δ** 8/31/02
- Signal Generators **Δ** 12/31/02

CALIBRATION SUPPORT STATUS

- ICP Development Status
 - ICP'S are being developed for 53 new model numbers, work is being performed in three phases:
 - Phase I - Completion Date 1 Feb 01 - 16 Items
 - Phase II - Completion Date 1 Aug 01 - 20 items
 - Phase III - Completion Date 30 Sept 01 - 12 items
 - Additions To Original Tasking - 5

FLEET ASSISTANCE

- Request Fleet assistance:
 - Identifying other opportunities where we will save from Standardization.
 - Incorporating model standardization plan
 - Standard deficiency submittal process
 - Support TMDE Budget re-dress process
 - Support optimizing allowances
 - Prioritizing criteria for SCAT standardization

PROCESS BENEFITS

- Reductions in calibration, maintenance and repair costs (RCC hours)
- Transportation costs
- Reduction of required deck plate training hours as mitigated by fewer models
- Sailor man hour reductions (MRC card shipboard maintenance)
- Reduced ICP development, Calibration problem reports (CPRs), BSTs, Purchase Descriptions
- Lateral re-distribution and procurement offsets through the use of TAV
- Reduction in model numbers saves on engineering costs; reduction in serial numbers saves on maintenance costs